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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,562	11/08/1999	ERIK J. VAN DER BURG	MVMDINC.001C	5387
20995	7590 01/30/2004		EXAM	INER
KNOBBE M	ARTENS OLSON &	BEAR LLP	DAWSON,	GLENN K
2040 MAIN S	STREET		ARTINET	PAPER NUMBER
FOURTEEN	TH FLOOR		ART UNIT	PAPER NUMBER
IRVINE CA	92614		3761	

DATE MAILED: 01/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# DRANGE COUNTY, DOCKETING FEB 0.3 2004

KNOBBE, MARTENS, OLSON & BEAR, LLF

	Applicati n No.	Applicant(s)					
	09/435,562	VAN DER BURG ET AL.					
Offic Action Summary	Examiner	Art Unit					
	Glenn K Dawson	3761					
The MAILING DATE of this communication a Period for Reply	ppears on the cover she t with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
1)⊠ Responsive to communication(s) filed on <u>09</u>	October 2003.						
•	is action is non-final.						
Since this application is in condition for allow closed in accordance with the practice unde	vance except for formal matters, pro	osecution as to the merits is					
Disposition of Claims							
4) Claim(s) 38-45,51-98,101 and 106-109 is/ar	e pending in the application.						
4a) Of the above claim(s) is/are withd							
5) Claim(s) is/are allowed.							
6) Claim(s) 38-45,51-98,101,106-109 is/are rej	ected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	I/or election requirement.						
Application Papers							
9) The specification is objected to by the Exami		_					
10)☐ The drawing(s) filed on is/are: a)☐ a							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the corr							
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	Action of form P1O-192.					
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.							
<ul> <li>a)  The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) ratent Application (PTO-152)					

Art Unit: 3761

### All wabl Subject Matt r

The indicated allowability of claims in the last office action is withdrawn in view of the newly discovered reference(s) to Banas and Riedy. Rejections based on the newly cited reference(s) follow.

### Claim Objections

Claims 38-45 are objected to because of the following informalities: in claim 38, the phrase "the 2<sup>nd</sup> layer membrane" should be "the 2<sup>nd</sup> membrane". Appropriate correction is required.

# Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 38-40,51,53,55,56,57,58,62,63,66-69,72,75,83-86,89,92,94,101,106 and 109 are rejected under 35 U.S.C. 102(e) as being anticipated by Banas-6124523.

Art Unit: 3761

Banas discloses a device having an expandable stent between two layers of e-PTFE. The layers are bonded together and to the stent by an adhesive layer. The ends of the stent are flared constituting the claimed portions going from a straight configuration to an inclined orientation upon expansion. The porosity of the layers is 10-90 microns.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 61,64,65,70,71,73,74,76,87,88,90,91,93 and 108 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banas, et al.-'523 in view of Huebsch, et al.-'422.

Banas discloses the invention as claimed with the exception of the materials of the layers. Huebsch discloses the use of Nitinol as an expandable frame. It would have been obvious to have manufactured the stent portion of Banas out of nitinol as this material has the required resilience, self-expanding and flexibility that Banas discloses the stent needs. As for the other materials, the specification has not provided any criticality to these materials, has not stated that these choices are designed to solve any particular problem and the examiner contends that the materials of the prior art device would work equally as well, making the claimed materials obvious design choices.

Claims 95-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banas, et al.-'523 in view of Huebsch, et al.-'422 as applied to the claims above, and further in view of Riedy, et al.-5108474.

Banas as modified by Huebsch makes obvious the invention as claimed with the exception of the type of adhesive used. Riedy discloses that polyethylene mesh adhesives were known. It would have been obvious to have used a polyethylene mesh adhesive to attach the layers of Banas's device, as this adhesive has been shown to be effective at forming strong laminates.

Claims 38-45,51-94,101 and 106-109 are rejected under 35 U.S.C. 103(a) as Art Unit: 3761 being unpatentable over Huebsch-'422 in view of Banas, et al.-'523.

Huebsch discloses a device having struts which are bendable to an inclined angle to facilitate their use as a closing device. An outer covering may be applied to the device to improve tissue in-growth. However, the specific material and porosity of the

Banas discloses a device having an expandable stent between two layers of ecovering is not disclosed. PTFE . The layers are bonded together and to the stent by an adhesive layer. The ends of the stent are flared constituting the claimed portions going from a straight configuration to an inclined orientation upon expansion. The porosity of the layers 10-90 microns. It is well known that e-PTFE has a porosity to allow for tissue ingrowth in stents or grafts. See Lentz-'545. It would have been obvious to have provided Huebsch's device with a covering such as that disclosed by Banas, as this is known to provide a good surface allowing for tissue ingrowth.

Claims 95-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huebsch-'422 in view of Banas, et al.-'523 as applied to the claims above, and further in view of Riedy-' et al.-5108474.

Huebsch as modified by Banas makes obvious the invention as claimed with the exception of the type of adhesive used. Riedy discloses that polyethylene mesh adhesives were known. It would have been obvious to have used a polyethylene mesh adhesive to attach the layers of Huebsch and Banas's device, as this adhesive has been shown to be effective at forming strong laminates.

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# Response to Arguments

Applicant's arguments with respect to all of the claims have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn K Dawson whose telephone number is 703-308-4304. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 703-308-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3590.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Glenn K Dawson Primary Examiner Art Unit 3761

Gkd 25 January 2004

# Notice of References Cit d Application/Control No. 09/435,562 Application/Control No. 09/435,562 Application/Control No. Application/Control No. Reexamination VAN DER BURG ET AL. Examiner Glenn K Dawson 3761 Page 1 of 1

### U.S. PATENT DOCUMENTS

*	7	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
7	Α	US-5,108,474	04-1992	Riedy et al.	55/485
V	В	US-6,124,523	09-2000	Banas et al.	623/1.15
	C	US-			
	D	US-			
	E	US-			
	F	US-			
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### FOREIGN PATENT DOCUMENTS

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### NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 23

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. MVMDINC.001CP1 APPLICATION NO. 09/435,562

SHEET 1 OF 2

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT van der Burg, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE November 8, 1999 GROUP 3761

U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	a	ASS	SUBCLASS		FILING DATE (IF APPROPRIATE)
len	1.	5,116,360	05/26/92	Pinchuk, et al.					
1	2.	5,700,285	12/23/97	Myers, et al.					
	3.	5,800,512	09/01/98	Lentz, et al.					
	4.	5,879,366	03/09/99	Shaw, et al.			Ĺ		
1	5.	5,904,680	05/18/99	Kordis, et al.					
	6.	6,004,348	12/21/99	Banas, et al.					
	7.	6,076,012	06/13/00	Swanson, et al.					
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	9.	6,080,182	06/27/00	Shaw, et al.				\	
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	18.	US 2001/0034537 A1	10/25/01	Shaw et al.					
<del>-/</del>	19.	US 2002/0062133 A1	05/23/02	Gilson et al.				T	

FOREIGN PATENT DOCUMENTS											
EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	(	LASS	SUB	CLASS	TRANSLATION		
INIȚIAL									YES	NO	
(er)	20.	WO 96/40356	12/19/96	PCT							
	21.	WO 98/27868	07/02/98	PCT							
	22.	WO 01/30266 A1	05/03/01	PCT							
	23.	WO 01/30268 A1	05/03/01	PCT		1					

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\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

	<u>U</u>		SHEET 2 OF 2
FORM PTO	1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. MVMDINC.001CP1	APPLICATION NO. 09/435,582
INFORI	SUPPLEMENTAL NATION DISCLOSURE STATEMENT		
	BY APPLICANT	APPLICANT van der Burg, et al.	·
(USE S	EVERAL SHEETS IF NECESSARY)	FILING DATE November 8, 1999	GROUP 3761

EXAMINER WITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
Len	24: PCT Search Report from co-pending Application PCT/US02/33808 dated May 20, 2003

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EXAMINER DOWS ON

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SHEET 1 OF 1 FORME 10-1449 APPLICATION NO. U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. 09/435,562 MVMDINC.001CP1 OKT 0 0 2003 INFORMATION DISCLOSURE STATEMENT BY APPLICANT APPLICANT van der Burg, et al. (USE SEVERAL SHEETS IF NECESSARY) **GROUP** FILING DATE 3761 November 8, 1999

U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
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FOREIGN PATENT DOCUMENTS							
EXAMINER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL						YES	NO
62	WO 99/44510	09/10/99	PCT				
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EXAMINER	Dawson	DATE CONSIDERED	1.25.04	
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\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 809; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

# United States Patent [19]

### Banas et al.

[11] Patent Number:

6,124,523

Date of Patent:

\*Sep. 26, 2000

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A ria 5,195,984 3/1993 Schalz	
r.	

[22]	Filed:	Mar. 10,	1995	

[51]	Int. Cl. <sup>7</sup>	A61F 2/02
[52]	U.S. Cl	623/11; 623/1; 606/191
	Field of Search	
		606/108; 623/1, 11, 12

References Cited [56]

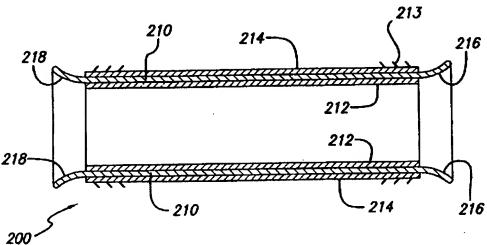
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**ABSTRACT** [57]

An encapsulated stent including a stent or structural support layer sandwiched between two biocompatible flexible layers. One preferred embodiment has a stent cover which includes a tubular shaped stent that is concentrically retained between two tubular shaped grafts of expanded polytetrafluoroethylene. Another preferred embodiment has a stent graft which includes at least one stent sandwiched between the ends of two tubular shaped grafts wherein at least a portion of the grafts are unsupported by the stent. Still another embodiment includes an articulating stented graft which includes a plurality of stents spaced apart from one another at a predetermined distance wherein each stent is contained between two clongated biocompatible tubular members. The graft/stent/graft assemblies all have inseparable layers.

### 10 Claims, 6 Drawing Sheets



103 12 3-11 1 3-1

# United States Patent [19]

Riedy et al.

[11] Patent Number:

5,108,474

Date of Patent:

Apr. 28, 1992

[54]	SMOKE F	ILTER	4.619.672 10/1986 4.702.940 10/1987		
[75]	Inventors:	James A. Riedy, Newark. Del.; Ralph D. Zingle, Elkton, Md.	4.816,328 3/1989 4.877,433 10/1989	Saville et al	
[73]	Assignee:	W. L. Gore & Associates, Inc., Newark, Del.	4,957,518 9/1990 4,957,522 9/1990	Brassell 55/385.4 X	
[21]	Appl. No.:		Primary Examiner— Attorney, Agent, or F	Robert Spitzer <i>ïrm</i> —Gary A. Samuels	
[22]	Filed:	Jan. 3, 1991	[57]	ABSTRACT	
[51] Int. Cl. <sup>5</sup>		A smoke filter which is useful in containing smoke pro- duced during electrosurgery or laser surgery proce- dures which has a prefilter layer to contain most of the smoke produced in these surgical procedures and to extend the useful life of the smoke filter, a microporous			
[56]	Ų.S. 1	References Cited PATENT DOCUMENTS	polymeric membrane layer which acts as a final filtering layer of the smoke filter and disposed between these two layers is a protective foam layer which protects the integrity of the microporous polymeric membrane from damage caused by the prefilter layer.		
	4,187.390 2/	1979 Kaczmarek et al			
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